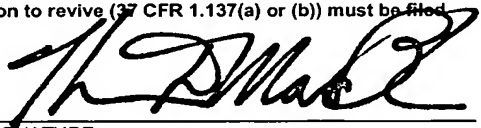


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|  |   |   |
|--|---|---|
| <b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>  |   | ATTORNEY'S DOCKET NUMBER<br><b>14609-0032</b>                       |
|  |   | U.S. APPLICATION NO. (if known, see 37 CFR 1.5)<br><b>10/511114</b> |
| INTERNATIONAL APPLICATION NO.<br><b>PCT/CH03/00243</b>   | INTERNATIONAL FILING DATE<br><b>11 April 2003</b> | PRIORITY DATE CLAIMED<br><b>12 April 2002</b>                       |
| TITLE OF INVENTION<br><b>Soft Switching Converter Using Current Shaping</b>  |   |   |
| APPLICANT(S) FOR DO/EO/US<br><b>Ionel, D. Jitaru</b>   |   |   |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:  |   |   |
| <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</li> <li>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))               <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).               <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))               <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input checked="" type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</li> <li>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol> |   |   |
| Items 11 to 20 below concern document(s) or information included:  |   |   |
| <ol style="list-style-type: none"> <li>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>13. <input type="checkbox"/> A preliminary amendment.</li> <li>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</li> <li>15. <input type="checkbox"/> A substitute specification.</li> <li>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</li> <li>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.</li> <li>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</li> <li>19. <input type="checkbox"/> A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).</li> <li>20. <input checked="" type="checkbox"/> Other items or information: <b>IPEA, Int'l Search Report, Written Opinions and Responses</b></li> </ol>   |   |   |

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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|   |              |  |           |   |    |                     |  |
|---|--------------|--|-----------|---|----|---------------------|--|
| U.S. APPLICATION NO. <b>10/511114</b>   |              | INTERNATIONAL APPLICATION NO.<br><b>PCT/CH03/00243</b> |           | ATTORNEY'S DOCKET NUMBER<br><b>14609-0032</b>   |    |                     |  |
| 21. <input checked="" type="checkbox"/> The following fees are submitted:<br><b>BASIC NATIONAL FEE (CFR 1.492(a)(1)-(5)):</b><br>Neither international preliminary examination fee (37 CFR 1.482)<br>nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO<br>and International Search Report not prepared by the EPO or JPO ..... <b>\$1080.00</b><br>International preliminary examination fee (37 CFR 1.482) not paid to<br>USPTO but International Search Report prepared by the EPO or JPO ..... <b>\$920.00</b><br>International preliminary examination fee (37 CFR 1.482) not paid to USPTO<br>but international search fee (37 CFR 1.445(a)(2)) paid to USPTO ..... <b>\$770.00</b><br>International preliminary examination fee (37 CFR 1.482) paid to USPTO<br>but all claims did not satisfy provisions of PCT Article 33(1)-(4) ..... <b>\$730.00</b><br>International preliminary examination fee (37 CFR 1.482) paid to USPTO<br>and all claims satisfied provisions of PCT Article 33(1)-(4) ..... <b>\$100.00</b><br><b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b> |              |  |           | <b>CALCULATIONS</b>   |    | <b>PTO USE ONLY</b> |  |
|   |              |  |           | \$ 920  |    |                     |  |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months<br>from the earliest claimed priority date (37 CFR 1.492(e)).   |              |  |           | \$ 130  |    |                     |  |
| CLAIMS  | NUMBER FILED | NUMBER EXTRA   | RATE      | \$  |    |                     |  |
| Total claims  | 41 - 20 =    | 21   | X \$18.00 | \$ 378  |    |                     |  |
| Independent claims  | 4 - 3 =      | 1  | X \$86.00 | \$ 86   |    |                     |  |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable)   |              |  |           | + \$290.00  | \$ |                     |  |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>  |              |  |           | \$ 1514   |    |                     |  |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced<br>by 1/2.   |              |  |           | \$  |    |                     |  |
| <b>SUBTOTAL =</b>   |              |  |           | \$ 1514   |    |                     |  |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest<br>claimed priority date (37 CFR 1.492(f)).  |              |  |           | +   |    | \$                  |  |
| <b>TOTAL NATIONAL FEE =</b>   |              |  |           | \$ 1514   |    |                     |  |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied<br>by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property   |              |  |           | +   |    | \$                  |  |
| <b>TOTAL FEES ENCLOSED =</b>  |              |  |           | \$ 1514   |    |                     |  |
|   |              |  |           | Amount to be<br>refunded:   |    | \$                  |  |
|   |              |  |           | Amount to be<br>charged:  |    | \$                  |  |
| a. <input checked="" type="checkbox"/> A check in the amount of \$ <u>1514.00</u> to cover the above fees is enclosed.<br>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees.<br>A duplicate copy of this sheet is enclosed.<br>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit<br>Account No. <u>070135</u> . A duplicate copy of this sheet is enclosed.<br>d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not<br>be included on this form. Provide credit card information and authorization on PTO-2038.  |              |  |           |   |    |                     |  |
| <b>NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed<br/>         and granted to restore the International Application to pending status.</b>  |              |  |           |   |    |                     |  |
| SEND ALL CORRESPONDENCE TO:<br>Thomas D. MacBlain<br>Gallagher & Kennedy, P.A.<br>2575 E. Camelback Road<br>Phoenix, AZ 85016   |              |  |           |   |    |                     |  |
|   |              |  |           | <br>SIGNATURE |    |                     |  |
|   |              |  |           | Thomas D. MacBlain<br>NAME  |    |                     |  |
|   |              |  |           | 24,583<br>REGISTRATION NUMBER   |    |                     |  |

10/511114

DT04 Rec'd PG 5/7 TO 12 OCT 2004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Ionel D. Jitaru  
 Serial No.: to be assigned  
 Filing Date: herewith  
 International Application No.: PCT/CH03/00243  
 International Filing Date: 11 April 2003  
 Priority Date: 12 April 2002  
 Title: Soft Switching Converter Using Current Shaping

**CERTIFICATE OF MAILING BY EXPRESS MAIL**  
**"Express Mail" Mail Label Number EL919128357US**

Mail Stop PCT  
 Commissioner for Patents  
 P. O. Box 1450  
 Alexandria, VA 22313-1450

Dear Sir:

I hereby certify that the following correspondence is being deposited in the United States Postal Service as Express Mail in an envelope addressed as shown above:

1. Transmittal Letter to the U.S. Designated/Elected Office (2 pages);
2. Copy of Published International application (27 pages);
3. Combined Declaration and Power of Attorney (3 pages);
4. Information Disclosure Statement (3 pages) and form 1449 (2 pages) and copies of 4 references;
5. Copy of International Search Report dated 7 October 2003 (8 pages);
6. Written Opinion dated 3 February 2004 (7 pages);
7. Response to Written Opinion of 3 February 2004 dated 2 June 2004 (5 pages);
8. Written Opinion dated 28 June 2004 (7 pages);
9. Response to Written Opinion of 28 June 2004 dated 27 July 2004 (19 pages);
10. Copy of International Preliminary Exam Report dated 19 August 2004 (18 pages);
11. Check for \$1,514.00; and
12. A return receipt postcard;

on the date shown below:

October 12, 2004  
 Date

Suzanne Shields  
 Suzanne Shields

Gallagher & Kennedy, P.A.  
 Attorneys at Law  
 2575 East Camelback Road  
 Phoenix, AZ 85016-9225  
 Tel. No. (602) 530-8088